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09/351,086	07/09/1999	NEVENKA DIMITROVA	PHA-23.716	9235

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EXAMINER

BUI, KIEU OANH T

ART UNIT PAPER NUMBER

2611

DATE MAILED: 01/02/2004

13

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/351,086

Applicant(s)

DIMITROVA, NEVENKA

Examiner

KIEU-OANH T BUI

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 06 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Response to Arguments*

1. Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

### *Claim Rejections - 35 USC 102*

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

*A person shall be entitled to a patent unless --*

*(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.*

3. Claims 1-10, and 18-25 are rejected under 35 U.S.C. 102(e) as being anticipated by Abecassis (U.S. Patent No. 6,553,178 B2).

Regarding claim 1, Abecassis discloses “a method for processing video, the method comprising the steps of: determining an association between a first video segment including a particular feature and at least one additional information source also including that feature; and utilizing the association to display information from the additional information source based at least in part on a selection by a user of the feature in the first video segment”, i.e., a customized content delivery is disclosed as video segments can be requested with a particular feature such as a personal preference, and based on that particular feature, related information to that feature can be displayed to the user/viewer from an additional information source as from a vendor for that particular product or service which the viewer interested in viewing (Figs. 8 & 9, and col.

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31/lines 14-24 & lines 45-67 for a variety of different sources, and col. 45/lines 30-57 for selecting video segments from plurality of video segments based on viewer's preference as well as col. 44/line 46-col. 45/line 18 for additional information provided as "advertisement" from other vendors or service providers).

As for claim 2, in view of claim 1, Abecassis discloses "wherein the determining step further includes the step of retrieving the association from a memory" (see col. 22/lines 14-33 and col. 45/lines 30-57 for a memory addressed).

As for claim 3, in view of claim 1, Abecassis discloses "wherein the determining step further includes determining the association from information in a portion of the video segment", i.e., a portion of a video segment such as a 5-minute analysis or a 10-min analysis for each segment from a private source or from a university can be determined, requested and retrieved (col. 36/lines 1-16).

As for claim 4, in view of claim 1, Abecassis discloses "wherein the additional information source comprises an additional video segment also including the feature" (as discussed in claim 1).

As for claim 5, in view of claim 4, Abecassis discloses "wherein the utilizing step includes switching from display of the first video segment to display of the additional video segment also including the feature" (as shown in Fig. 11B, as a customized video is selected as "Yes" at 1130, a video transmission is switched at step 1131 or to step 1132 for returning to non-customized video).

As for claim 6, in view of claim 4, Abecassis discloses “wherein the utilizing step includes displaying the additional video segment at least in part in a separate portion of a display which also includes at least a portion of the first video segment” (Fig. 10D shows that a selected target video, for a racing in this example, is shown a separate portion of a display within the video segment showing the car racing show).

As for claim 7, in view of claim 1, Abecassis further discloses “wherein the feature is a video feature extracted from at least one frame of the video segment”, i.e., the selected target is at least one frame of the video segment as a window frame of image (col. 41/line 65 to col. 42/line 4).

As for claim 8, in view of claim 7, Abecassis discloses “wherein the video feature comprises at least one of a frame characterization, a face identification, a scene identification, an event identification, and an object identification” (col. 41/lines 53-65 & col. 42/lines 29-65 & col. 43/lines 10-32).

As for claims 9 and 10, in view of claim 1, Abecassis further discloses “wherein the feature is an audio feature extracted from at least one frame of the video segment” and “wherein the utilizing step includes combining an audio signal corresponding to the audio feature with an audio signal associated with the first video segment”, i.e., as the user selects a target and zooms in, the audio feature being extracted and increases its audio sound related to the portion of video segments selected (col. 44/lines 16-41).

As for claims 18-25, these claims with same limitations are rejected for the reasons given in the scope of claims 1-10 as already discussed in details above.

***Claim Rejections - 35 USC 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

*(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.*

5. Claims 11-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abecassis (U.S. Patent No. 6,553,178 B2) in view of Jain et al. (U.S. Patent No. 6,463,444 B1).

Regarding claim 11, in view of claim 9, Abecassis does not further disclose “wherein the utilizing step includes converting an audio signal corresponding to the audio feature into a textual format which is displayed with the first video segment”; however, such a technique of converting audio signal to a textual format or speech-to-text feature is known in the art. In fact, Jain, in a video cataloger system for providing video/audio information data to the user, teaches to use a closed caption decoder (Fig. 3) or speech-to-text converting technique for providing a textual format to display with the video to the user (Fig. 9, item 518, and col. 9/line 45 to col. 10/line 38 for audio feature extractors, and col. 20/lines 45-48 for speech-to-text). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abecassis’ system with Jain’s teaching technique as disclosed in order to provide an additional feature such as a textual format in addition to the display of video presentation. This technique is helpful for some people have difficulty in hearing, so that they can read the texts on the display screen instead, which serves also as a motivation for modifying Abecassis regarding this limitation.

As for claim 12, in view of claims 9 and 11 above, Jain further including “separating at least a portion of the video segment into audio categories including one or more of single-voice speech, multiple voice speech, music, silence and noise in order to extract the audio feature therefrom” (see Fig. 6 and col. 9/line 45 to col. 10/line 38 for a monitoring screen for separating a portion of video segment into audio categories and audio feature extractors as addressed).

As for claim 13, in view of claims 9 and 11 above, Jain teaches “wherein the audio feature comprises at least one of a music signature extraction, a speaker identification, and a transcript extraction”, i.e., music, and/or speaker ID, signatures or sample speeches of individual speaker or transcripts from the speaker are within audio feature addressed (see col. 9/line 18-col. 10/line 38).

As for claim 14, in view of claim 1, the combination of Abecassis and Jain teaches “wherein the feature is a textual feature extracted from at least one frame of the video segment”, i.e., applied Jain’s technique of textual feature extracted, the at least one frame of the video segment as discussed earlier of Abecassis would contain the textual feature (see claims 1, 7 and 11).

As for claim 15, in view of claim 14, Jain further discloses “wherein the utilizing step includes displaying information corresponding to the textual information as an overlay on a display of the first video segment” (as illustrated in Fig. 17, and col. 14/lines 15-63).

As for claim 16, in view of claims 1 and 14, Jain further teaches “wherein the determining step further includes determining the association based at least in part on at least one multi-dimensional feature vector extracted from a portion of the video segment using a feature

extraction technique” (Fig. 14, and col. 12/lines 20-46 for feature extraction technique addressed).

6. Claim 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Abecassis (U.S. Patent No. 6,553,178 B2).

As for claim 17, in view of claim 1, Abecassis does not disclose “wherein the determining step further includes determining the association based at least in part on at least one of a similarity measure and a clustering technique”; however, this limitation is admitted as prior art by the Applicant (page 9, line 19 to page 10/line 13). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Abecassis’ technique with a known prior art using similarity measure and a clustering technique for determining the association or the relationship in the determining step of claim 1, for the purpose of providing same information to a group of users with similarity interests on a certain product or service as preferred.

### ***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Abecassis (US Patent 5,684,918) and Guedalia (US 6,536,043 B1) disclose video delivering systems related to video framing, and segments.



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**8. Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231

**or faxed to:**

**(703) 872-9306, (for Technology Center 2600 only)**

*Hand-delivered responses should be brought to Crystal Park IV, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krista Kieu-Oanh Bui whose telephone number is (703) 305-0095. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile, can be reached on (703) 305-4380.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.



KRISTA BUI  
PATENT EXAMINER

Krista Bui  
Art Unit 2611  
December 19, 2003